

A³
cont.

allow the test agent to bind AR-NOX; and

- (b) detecting the presence of a complex comprising AR-NOX and the test compound.
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A⁴

14. (amended) The method of claim 12 wherein said method further comprises incubating AR-NOX with a component that is known to interact with AR-NOX.

15. (amended) The method of claim 14 wherein said component that is known to interact with AR-NOX is ubiquinone.

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17. (amended) A method of screening for agents that sequester AR-NOX comprising:

- (a) incubating AR-NOX with a test agent, cytochrome c, and a substrate that generates reactive oxygen species, for a time sufficient for cytochrome c reduction; and
- (b) detecting the presence of reduced cytochrome c, in the presence or absence of the test agent.

18. (amended) The method of claim 17 wherein the substrate that generates reactive oxygen species is superoxide dismutase.

19. (amended) The method of claim 17 wherein the detection of cytochrome c is measured by comparing spectrophotometric absorbance at about 540 nm to 550 nm in the presence of said test agent to the spectrophotometric absorbance at about 540 nm to 550 nm in the absence of said test agent.

20. (amended) A method of screening for agents that sequester AR-NOX comprising:

- (a) incubating AR-NOX with a test agent and a substrate, wherein said substrate is reduced by AR-NOX, for a time sufficient for AR-NOX to reduce said substrate; and
- (b) detecting the presence of reduced substrate in the presence or

absence of the test agent.

21. (amended) The method of claim 20 wherein the substrate reduced by AR-NOX is an ascorbate radical.

22. (amended) The method of claim 21 wherein the detection of ascorbate radical is measured by comparing spectrophotometric absorbance at about 265 nm in the presence of said test agent to the spectrophotometric absorbance at about 265 nm in the absence of said test agent.

23. (amended) The method of claim 20 wherein the substrate reduced by AR-NOX is NAD⁺.

24. (amended) A method of screening for agents that sequester AR-NOX comprising

- (a) incubating AR-NOX with a test agent and a substrate, wherein said substrate undergoes disulfide-thiol interchange activity in the presence of AR-NOX, for a time sufficient for AR-NOX to reduce said substrate; and
- (b) detecting the presence of disulfide-thiol interchange in the substrate in the presence or absence of the test agent.

REMARKS

The specification has been amended on pages 8 and 9 to correctly identify the lettered subparts of the formal drawings submitted concurrently herewith. A marked up version of the specification showing the amendments made is attached as Exhibit A and a clean copy of the replacement paragraphs of the specification is attached as Exhibit B. No new matter has been added.

Prior to the above-made amendments, claims 1 to 54 were pending in the instant application. Claims 1 to 11 and 25 to 54 are withdrawn from further consideration by the Examiner, as being drawn to non-elected inventions. Accordingly, claims 1 to 11 and 25 to 54 have been canceled without prejudice to Applicant's right to pursue the subject matter